

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (currently amended) A truck mounted rotating broom system comprising:
a rotating broom mounting and control assembly;
a support structure ~~mounted~~ mountable to ~~the~~ a truck; and
a non-rigid, non-load bearing connection therebetween.
2. (original) The truck mounted rotating broom system as defined in claim 1 wherein said support structure includes:
a substantially stationary gooseneck assembly; and
a swinging trunnion assembly rotatably connected to said substantially stationary gooseneck assembly.
3. (currently amended) The truck mounted rotating broom system as defined in claim 1 wherein said non-rigid connection includes a floating beam and a four bar connection between said ~~swinging trunnion assembly~~ support structure and said ~~floating beam~~ control assembly.
4. (currently amended) A truck mounted rotating broom system comprising:
a support structure including:
a substantially stationary gooseneck assembly constructed and arranged to mount to the front of the truck; and
a swinging trunnion assembly constructed and arranged for rotatable connection to said substantially stationary gooseneck assembly;
means for controlling the position of said swinging trunnion assembly with respect to said gooseneck assembly;

a ~~non-rigid non-load bearing~~ connection including a floating beam assembly connected to the swinging trunnion assembly; and

a broom positioning, supporting, and rotating assembly connected to said floating beam assembly.

5. (currently amended) The system as defined in ~~claim 4~~ claim 4 wherein said ~~non-rigid non-load bearing~~ connection includes a multiple link attachment mechanism.

6. (withdrawn) The mounting assembly as defined in claim 1 wherein said rotating mounting and control assembly includes:

a substantially horizontal beam including a left portion, a right portion, and a central portion;

a first caster assembly constructed and arranged for mounting to said left portion of said substantially horizontal beam;

a second caster assembly constructed and arranged for mounting to said right portion of said substantially horizontal beam;

a first pivot arm assembly connected to the left end of said substantially horizontal beam;

a second pivot arm assembly connected to the right end of said substantially horizontal beam;

means for mounting said non-rigid connection to said substantially horizontal beam; and

means for providing rotational power to the rotating broom.

7. (withdrawn) A system for removing snow from a paved surface, comprising:

a truck;

a rotating broom system mounted to the front of said truck; said rotating broom system including:

a positioning, supporting, and rotating assembly for a rotating broom;

a support structure mounted to said truck; and

a non-rigid connection between said positioning, supporting and rotating assembly and said support structure.

8. (new) The system as defined in claim 1 wherein the mounting and control assembly comprises a pair of caster wheel assemblies symmetrically positioned about the non-rigid connection to support the weight of the rotating broom and mounting and control assembly.

9. (new) The system as defined in claim 1 wherein the point of rotation of the rotating broom is located on the centerline of a chassis of a truck to which the rotating broom system is mounted.

10. (new) The system as defined in claim 1 wherein the support structure allows center point sweeping to the left or right of a truck to which the rotating broom system is mounted.

11. (new) The system as defined in claim 1 wherein the support structure provides center point oscillation of the rotating broom mounting and control assembly.

12. (new) The system as defined in claim 4 wherein the means for controlling the position of said swinging trunnion assembly comprises a steering yoke, a mounting bracket and a pair of steering cylinders connected there between.

13. (new) The system as defined in claim 4 wherein the gooseneck assembly allows center point sweeping to the left or right of a truck to which the rotating broom system is mounted.

14. (new) The system as defined in claim 4 wherein the swinging trunnion assembly provides center point oscillation of the rotating broom mounting and control assembly.

15. (new) The system as defined in claim 4 wherein the broom positioning, supporting, and rotating assembly comprises a pair of caster wheel assemblies symmetrically positioned about the non-load bearing connection to support the weight of the broom positioning, supporting, and rotating assembly.

16. (new) The system as defined in claim 4 wherein the point of rotation of the swinging trunnion assembly is located on the centerline of a chassis of a truck to which the rotating broom system is mounted.